

DUST COLLECTOR

Model 75

Instruction Manual & Parts List

M-0460200



POWERMATIC®

(800) 248-0144
www.powermatic.com

This manual has been prepared for the owner and operators of a Powermatic Model 75 Dust Collector. Its purpose, aside from machine operation, is to promote safety through the use of accepted correct operating and maintenance procedures. Completely read the safety and maintenance instructions before operating or servicing the machine. To obtain maximum life and efficiency from your dust collector and to aid in using the machine safely, read this manual thoroughly and follow all instructions carefully.

Warranty & Service

The WMH Tool Group warrants every product it sells. If one of our tools needs service or repair, one of our Authorized Repair Stations located throughout the United States can give you quick service.

In most cases, any one of these WMH Tool Group Repair Stations can authorize warranty repair, assist you in obtaining parts, or perform routine maintenance and major repair on your JET, Powermatic, Performax, or Wilton tools.

For the name of an Authorized Repair Station in your area, please call 1-800-274-6848.

More Information

Remember, the WMH Tool Group is consistently adding new products to the line. For complete, up-to-date product information, check with your local WMH Tool Group distributor.

WMH Tool Group Warranty

The WMH Tool Group makes every effort to assure that its products meet high quality and durability standards and warrants to the original retail consumer/purchaser of our products that each product be free from defects in materials and workmanship as follow: 1 YEAR LIMITED WARRANTY ON ALL PRODUCTS UNLESS SPECIFIED OTHERWISE. This Warranty does not apply to defects due directly or indirectly to misuse, abuse, negligence or accidents, normal wear-and-tear, repair or alterations outside our facilities, or to a lack of maintenance.

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To take advantage of this warranty, the product or part must be returned for examination, postage prepaid, to an Authorized Repair Station designated by our office. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection discloses a defect, we will either repair or replace the product, or refund the purchase price if we cannot readily and quickly provide a repair or replacement, if you are willing to accept a refund. We will return repaired product or replacement at WMH's expense, but if it is determined there is no defect, or that the defect resulted from causes not within the scope of WMH's warranty, then the user must bear the cost of storing and returning the product. This warranty gives you specific legal rights; you may also have other rights which vary from state to state.

The WMH Tool Group sells through distributors only. Members of the WMH Tool Group reserve the right to effect at any time, without prior notice, those alterations to parts, fittings, and accessory equipment which they may deem necessary for any reason whatsoever.

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SAFETY RULES

Read the Manual. Always read the owner's manual carefully before attempting to use the machine. Know the limitations and hazards associated with its use.

Eyes. Always wear approved safety goggles or glasses that comply with ANSI Z87.1 when operating this machine. NOTE: Common eyeglasses are only impact resistant, they are not safety glasses.

Dress Code. Do not wear loose clothing, neckties, jewelry, or gloves that can get caught in moving parts. Confine long hair. Keep sleeves above the elbow.

Electrical Grounding. Your machine must be electrically grounded. If a cord and plug are used, make certain the grounding lug connects to a suitable ground. Follow the grounding procedure indicated by the National Electric Code.

Guards. Keep machine guards in place at all times when machine is in use. If removed for maintenance purposes, use extreme caution and replace the guards immediately.

Do not overreach. Maintain a balanced stance at all times so that you do not fall or lean against blades or other moving parts.

Power off. Make sure the machine is either unplugged or electrically disconnected and locked out when performing maintenance or service work.

Housekeeping. Before turning on machine, remove all extra equipment such as keys, wrenches, scrap, stock, and cleaning rags from the machine. Keep the area around machine clean and free of scrap material and sawdust to minimize the danger of slipping.

Power on. On machines equipped with a manual starter make sure the starter is in "STOP" position before connecting power to machine.

Use the right tool. Don't force a tool or attachment to do a job which it was not designed for.

Check damaged parts. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other condition that may affect the machine's operation. A guard or other part that is damaged should be properly repaired or replaced.

Turn power off. Never leave machine running unattended. Do not leave machine until it comes to a complete stop.

No horseplay. Give your work your undivided attention. Looking around, carrying on a conversation, and "horseplay" are careless acts that can result in serious injury.

Use recommended accessories; improper accessories may be hazardous.

Collect wood materials only. Metal shavings and dust can set wood dust on fire.

Do not expose the dust collector to moisture or wet surfaces. Use only indoors and on a dry surface to avoid the risk of electrical shock.

Do not use the dust collector around flammable products. Sparks may ignite the vapors. Do not pick up anything that is burning or smoking.

Do not operate the dust collector without the hose connected to the suction chute. Hazardous moving parts are inside and could cause serious injury.

Do not put any objects into openings. Do not use with any opening blocked; keep free of dust, lint, hair and anything that may reduce air flow.

Drugs, alcohol, medication. Do not operate machine while under the influence of drugs, alcohol, or any medication.

Health Hazards. Some dust created by power sanding, sawing, grinding, drilling and other construction activities contains chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- * Lead from lead-based paint.
- * Crystalline silica from bricks and cement and other masonry products.
- * Arsenic and chromium from chemically-treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals, work in a well-ventilated area, and work with approved safety equipment, such as those dust masks that are specifically designed to filter out microscopic particles.

Familiarize yourself with the following safety notices used in this manual:



CAUTION: (This means that if precautions are not heeded, it may result in minor or moderate injury and/or possible machine damage)



WARNING: (This means that if precautions are not heeded, it could result in serious injury or possibly even death).

SAFETY

Familiarize yourself with the location of these safety decals on your dust collector.

⚠ WARNING



Metal shavings or dust can set saw dust on fire. Collect wood materials only. Do not collect metal shavings or dust. See manual for details.



Risk of electric shock. Use indoors in dry area. Do not use outdoors or on wet surfaces.

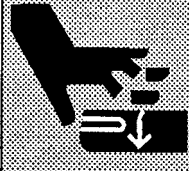


Sparks can ignite vapors from flammable products. Do not use around flammable products.

If connected to a circuit protected by fuses, use time delay fuses with this appliance.

SAFETY RULES

- CAREFULLY READ INSTRUCTION MANUAL BEFORE OPERATING MACHINE.
- DO NOT OPERATE WITHOUT ALL GUARDS AND COVERS IN POSITION.
- BE SURE MACHINE IS ELECTRICALLY GROUNDED.
- REMOVE OR FASTEN LOOSE ARTICLES OF CLOTHING SUCH AS NECKTIES, ETC. CONFINE HAIR.
- REMOVE JEWELRY SUCH AS FINGER RINGS, WATCHES, BRACELETS, ETC.
- USE SAFETY FACE SHIELD, GOGGLES, OR GLASSES TO PROTECT EYES AND OTHER PERSONAL SAFETY EQUIPMENT AS REQUIRED.
- STOP MACHINE BEFORE MAKING ADJUSTMENTS OR CLEANING CHIPS FROM WORK AREA.
- KEEP THE FLOOR AROUND THE MACHINE CLEAN AND FREE FROM SCRAPS, SAWDUST, OIL OR GREASE TO MINIMIZE THE DANGER OF SLIPPING.



⚠ WARNING

Hazardous moving parts inside.
Unplug before removing Inlet guard.
Attach Inlet guard before plugging in.

SPECIFICATIONS: Model 75 Dust Collector

Motor	3 HP, 1 Ph, 230V
.....	3 HP, 3 Ph, 230/460V (prewired 230V)
CFM	1900
Capacity	10 cu. ft.
Upper dust bag	cloth
Lower dust bag	cloth
Switch	industrial push button
Height	90"
Inlet sizes	one-8", one-6", or three-4"
Casters	four swivel
Weight (gross)	154.32 lbs.

NOTE: The above specifications were current at the time this manual was published, but because of our policy of continuous improvement, Powermatic reserves the right to change specifications without notice and without incurring obligations.

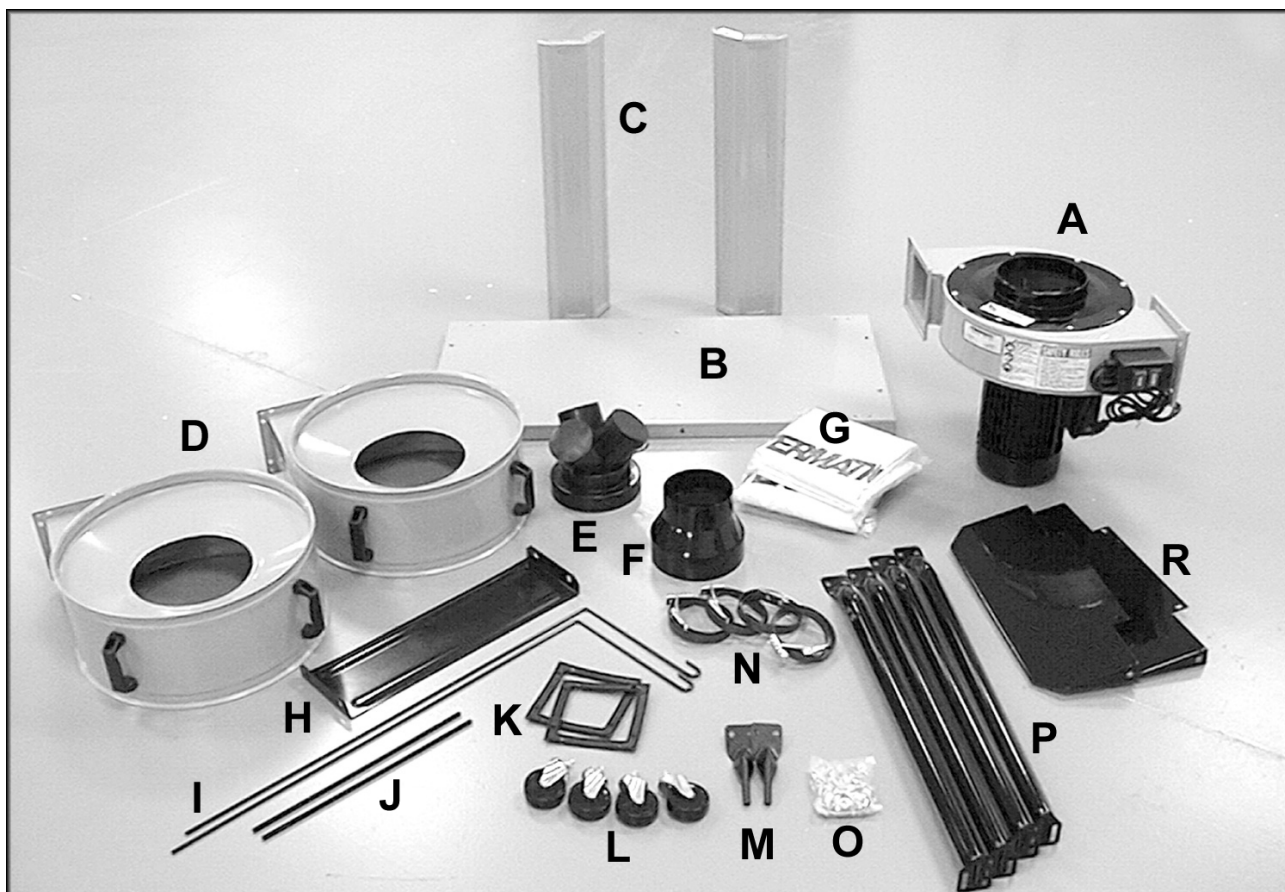


FIGURE 1

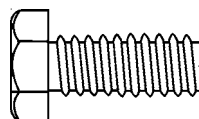
RECEIVING

Remove all contents from the shipping carton and check each item against the packing list. Report any missing or damaged parts immediately to your shipping agent and distributor.

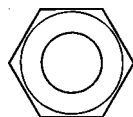
Read the instruction manual thoroughly for assembly, alignment, maintenance and safety instructions.

Contents of carton (Figure 1):

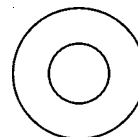
- | | |
|-----------------------------------|------------------------|
| A - 1 impeller housing with motor | K - 2 rubber gaskets |
| B - 1 base | L - 4 casters |
| C - 2 support brackets | M - 2 hanger brackets |
| D - 2 housings | N - 4 retainer straps |
| E - 1 adapter (4") | O - 1 hardware bag* |
| F - 1 adapter (6") | P - 4 support legs |
| G - 4 cloth bags | R - 2 extension plates |
| H - 1 support plate | 1 manual |
| I - 2 upper hangers | 1 warranty card |
| J - 2 lower hangers | |



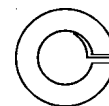
Hex Head Screw
M8 x 1.25 x 20
Qty. 48



Hex Nut
M8 x 1.25
Qty. 42



Flat Washer
M8
Qty. 76



Lock Washer
M8
Qty. 16

FIGURE 2

* Contents of hardware bag are drawn full scale in Figure 2.

ASSEMBLY

Tools needed

13mm wrench
pliers

1. Turn the base on edge and attach the four caster assemblies to the threaded holes in the corners of the base. The loose nut and washer on the caster should be removed and reversed (washer on top of nut) as shown in Figure 3. Place a wrench on the bottom nut and turn clockwise to screw the caster assembly firmly into the base.



FIGURE 3

2. Mount the two extension plates to the ends of the base, each with four screws, four flat washers, four lock washers, and four hex nuts. See Figure 4.

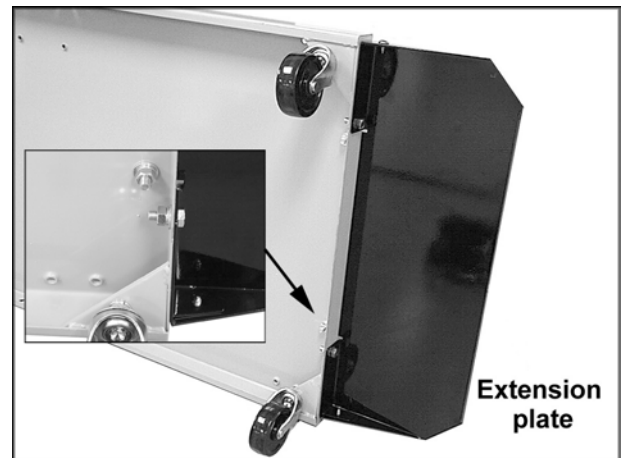


FIGURE 4

3. Mount the support plate to the underside of the base, as shown in Figure 5. Use four screws, eight flat washers and four nuts.

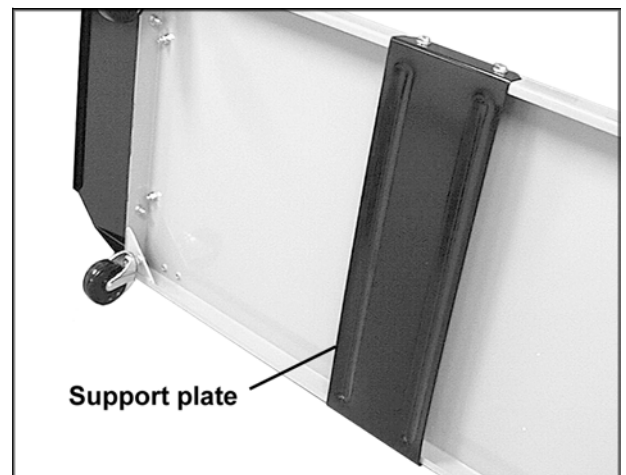


FIGURE 5

4. Turn the base upright on to its casters. Attach the two support brackets to the threaded holes in the center of the base, as shown in Figure 6. Use four screws with four flat washers. NOTE: Be careful not to strip the screws.

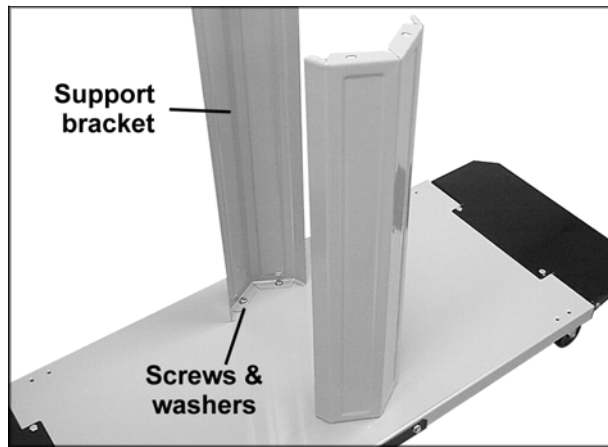


FIGURE 6

5. With the aid of an assistant, lift the impeller housing with motor on to the support brackets, dropping the four bolts mounted to the impeller housing into the four holes in the support brackets. See Figure 7. Secure with four nuts, four lock washers, and four flat washers.

NOTE: Minor adjustments can be made by slightly loosening the screws at the bottom of the support brackets and moving the brackets accordingly. Be sure to re-tighten the screws after adjusting.

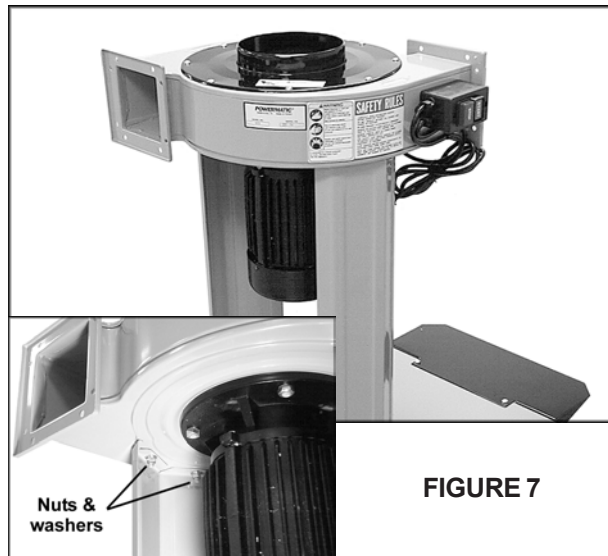


FIGURE 7

6. Mount the two side housings onto the impeller housing, making sure they are oriented properly, as shown in Figure 8. Place a rubber gasket over the opening of the housing, inserting the small knobs on the gasket into the corner holes of the housing opening.

Attach the housings, each with eight screws, sixteen flat washers, and eight nuts. Tighten all screws and nuts.



FIGURE 8

7. Attach two of the support legs to the front of the machine. See Figure 9. The bottom of the support leg is slotted and mounts to the pre-tapped holes in the base with two screws and two flat washers. Do not tighten yet.

The top of the support leg mounts to the housing with two screws, four flat washers, and two nuts.

Use the slots at the bottom of the support leg for adjustment if needed, then tighten all screws and nuts.

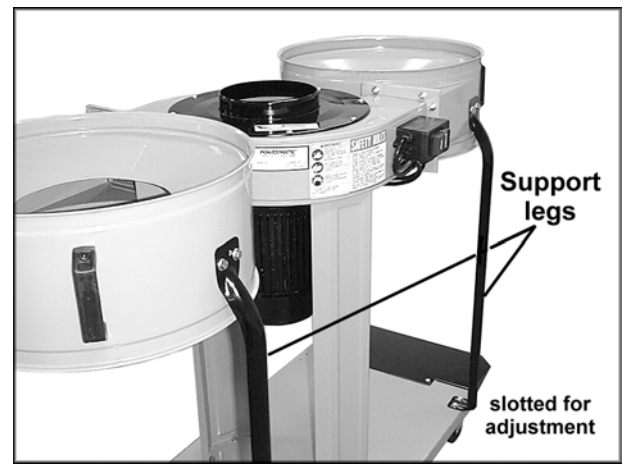


FIGURE 9

8. Attach the two rear support legs as follows: The bottom of the support leg is slotted and mounts to the pre-tapped holes in the base with two screws and two flat washers. Do not tighten yet.

The top of the support leg mounts to the holes in the housing, with a hanger bracket placed in between, as shown in Figure 10.

Make any necessary adjustments using the slots at the bottom of the support leg, then tighten all screws and nuts.

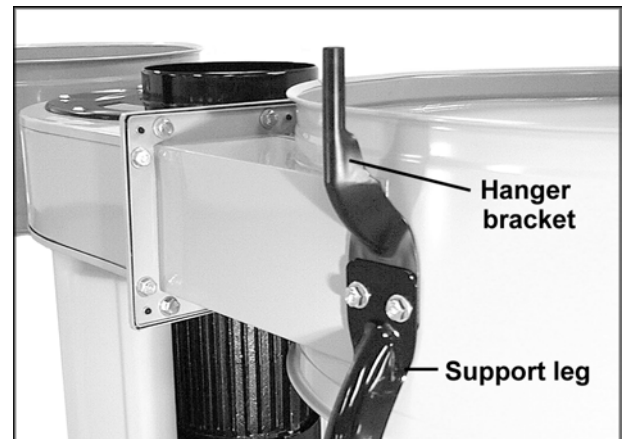


FIGURE 10

9. Screw the lower hanger onto the threads of the upper hanger, as shown in Figure 11. A flat has been placed on the lower hanger for use of a wrench to help in the attachment.

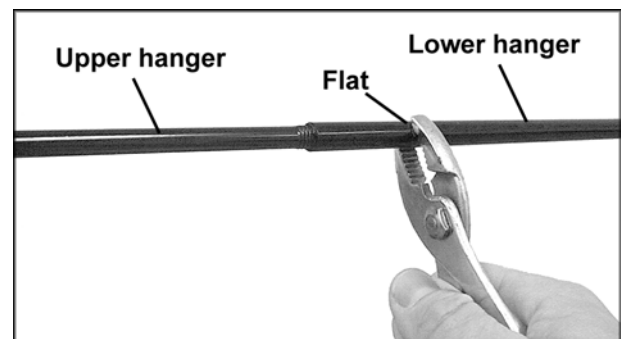


FIGURE 11

10. Place the two hanger assemblies into the hanger brackets on the back of the housings, as shown in Figure 12. The "hooks" should face to the front.

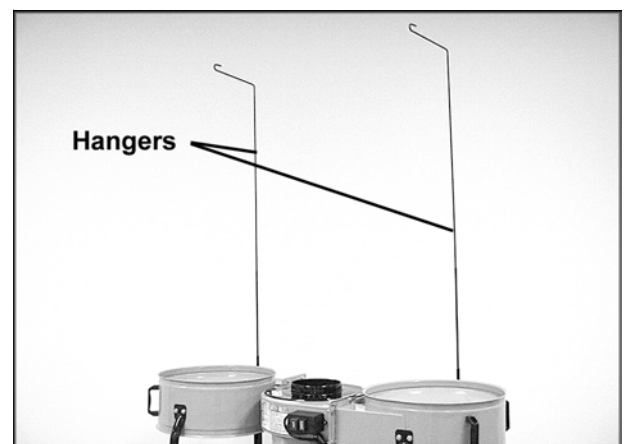


FIGURE 12

11. Install the lower dust bag as follows:
Insert a retainer strap through the loops in the bag as shown in Figure 13.



CAUTION: Retainer straps are rolled up under tension. Hold strap with hand and allow to unroll gradually.

Place the bag over the lip of the housing and secure by fastening the retainer strap. Repeat for other lower bag.

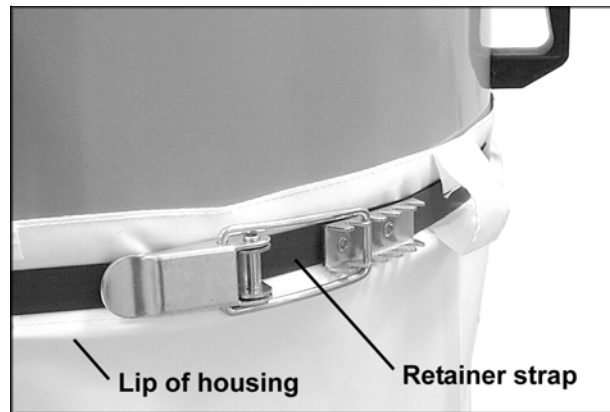


FIGURE 13

12. In the same fashion, install the upper bag with a retainer strap over the top lip of the housing. (NOTE: the upper bag has the Powermatic name on it). See Figure 14. Place the top loop of the bag over the "hook" on the hanger as shown. Repeat for other bag.

All bags should be securely fastened to the housings with no air leaks.



FIGURE 14

13. Two adaptors are provided with the dust collector. Place one upon the inlet as shown in Figure 15. A hole is provided on the inlet for a screw to secure a hose or an adaptor to the machine.

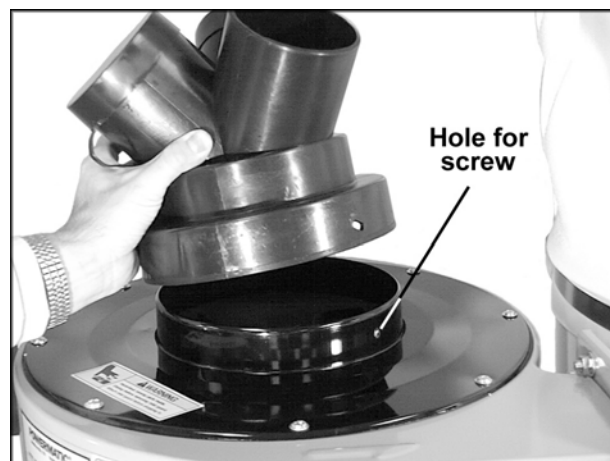


FIGURE 15

ELECTRICAL CONNECTION

The dust collector is equipped with a 3 horsepower, single phase, 230 volt, or three phase, 230/460 volt motor. The unit is factory wired for 230 volts and equipped with a 20 amp cord and plug set. The 230 volt plug requires a receptacle as illustrated in Figure 16.

The three phase motor may be reconnected for 460 volts by changing the connections as illustrated in the diagram motor wiring box. The three phase power cord is not equipped with a plug.

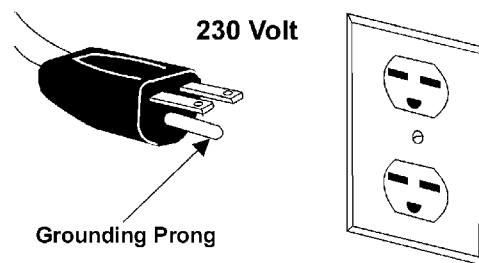


FIGURE 16

GROUNDING INSTRUCTIONS



WARNING: The dust collector must be grounded to protect the operator from electric shock. Not all outlets are properly grounded. Have your outlets checked by a qualified electrician.

All grounded, cord connected tools:

In the event of a malfunction or breakdown, grounding provides a path of least resistance for electric current in order to reduce the risk of electric shock.

This machine is equipped with an electric cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into a matching outlet that is properly installed and grounded in accordance with all local codes and ordinances. Do not modify the plug provided if it will not fit the outlet; have the proper outlet installed by a qualified electrician. Improper connection of the equipment-grounding conductor can result in risk of electric shock. The conductor with insulation having an outer surface that is green with or without yellow stripes is the equipment-grounding conductor. If repair or replacement of the electric cord or plug is necessary, do not connect the equipment grounding conductor to a live terminal.

Check with a qualified electrician or service personnel if the grounding instructions are not completely understood, or if in doubt as to whether the machine is properly grounded.

Use only 3-wire extension cords that have 3-prong grounding plugs and 3-pole receptacles that accept the tools' plug. Repair or replace any damaged or worn cord immediately.

As the three phase 230/460 volt motor does not have a plug, please carefully follow the rotation direction of the impeller when connecting to the power source.

EXTENSION CORD

Use only a 3-wire extension cord with a 3-prong grounding plug and a 3-pole receptacle as shown in Figure 16. Replace a damaged or worn cord immediately. The use of an extension cord, if required, results in a certain loss of power. The recommended wire gage is no. 10.

OPERATION

SWITCH

The switch box attached to the impeller housing is an industrial type switch with standard "start" and "stop" push buttons.

MOTOR

Motors used in a woodworking environment are constantly exposed to sawdust and wood chips. The operator should make frequent inspections of the motor and remove, or vacuum, any accumulation of foreign material in order to maintain normal motor ventilation.

Remove dust from the motor with a low pressure air hose.



CAUTION: The operator should follow all safety procedures regarding dust particles and always wear safety goggles and a filter mask during any cleaning operation.

MAINTENANCE



CAUTION: Never perform maintenance on this machine before pushing "stop" and removing plug from power source.

DUST BAGS

Each operator has his own particular application of woodworking machinery. As such, a maintenance schedule for the dust collector must be performed on a regular and timely basis. To remove dust and chips:

1. Disconnect machine from its power source.
2. Shake the upper dust bag and allow the fine dust to settle down into the lower bag.
3. Release the clamp around upper bag, remove the upper bag and deposit all remaining dust into a fire-proof metal container.
4. Release clamp around lower bag, remove the lower bag and deposit chips and dust into a fire-proof metal container.
5. Reconnect both sets of dust bags making sure the clamps firmly secure the bags to the housings.

Trouble-Shooting for Model 75 Dust Collector

PROBLEM	POSSIBLE CAUSE	SOLUTION
Motor will not run.	<ol style="list-style-type: none"> 1. Defective cord, plug, switch, and/or motor. 2. Blown fuse or circuit breaker tripped. 	<ol style="list-style-type: none"> 1. Consult service. Any attempt to repair this motor may create a hazard unless repair is done by a qualified service technician. 2. Check for blown fuses and replace with fuse of proper capacity or re-set circuit breaker.
Excessive sawdust in air.	<ol style="list-style-type: none"> 1. Loose clamps; dust bag and/or chip collection bag not secure. 	<ol style="list-style-type: none"> 1. Tighten clamps.
Excessive impeller noise.	<ol style="list-style-type: none"> 1. Picked up large chips and debris. 2. Loose impeller. 3. Rubbing impeller. 	<ol style="list-style-type: none"> 1. Stop the machine to allow material to fall to the bottom of inlet pipe. Remove debris. 2. Unplug unit prior to disassembly due to hazardous moving parts inside. Use a piece of wood to free impeller. Attach to inlet guard before plugging in. 3. Consult service to repair loose or rubbing impeller. A repair to the housing may create a hazard unless it is done by a qualified service technician.
Excessive noise.	<ol style="list-style-type: none"> 1. Motor. 	<ol style="list-style-type: none"> 1. Have motor checked by a qualified service technician.
Motor fails to develop full power.	<ol style="list-style-type: none"> 2. Overloaded circuit. 3. Undersize extension cord or extension cord too long. 	<ol style="list-style-type: none"> 2. Do not overload circuit when using dust collection system with other appliances. 3. Increase the wire sizes on extension cord, reduce length of extension cord or use larger wire sizes. Request a power check from the power company.
Motor starts slowly or fails to come up to full speed.	<ol style="list-style-type: none"> 1. Low voltage. 2. Windings burned out or open. 3. Starting switch will not operate. (Switch contacts not working properly.) 	<ol style="list-style-type: none"> 1. Request voltage check from power company. 2. Have motor repaired or replaced by a qualified service technician. 3. Replace capacitor by a qualified service technician.
Motor overheats.	<ol style="list-style-type: none"> 1. Motor overloaded. 2. Improper cooling. (Air circulation restricted through motor due to sawdust accumulation inside of motor.) 	<ol style="list-style-type: none"> 1 & 2. Clean out sawdust and provide normal air circulation through motor.
Motor stalls.	<ol style="list-style-type: none"> 1. Low voltage does not permit motor to reach operating speed. 2. Fuses or circuit breakers lack sufficient capacity. 	<ol style="list-style-type: none"> 1. Request voltage check from power company. 2. Install proper size fuses or circuit breakers.
Frequent opening of fuses or circuit breakers.	<ol style="list-style-type: none"> 1. Motor overloaded. 2. Fuses or circuit breakers lack sufficient capacity. 	<ol style="list-style-type: none"> 1 & 2. Install proper size fuses or circuit breakers.

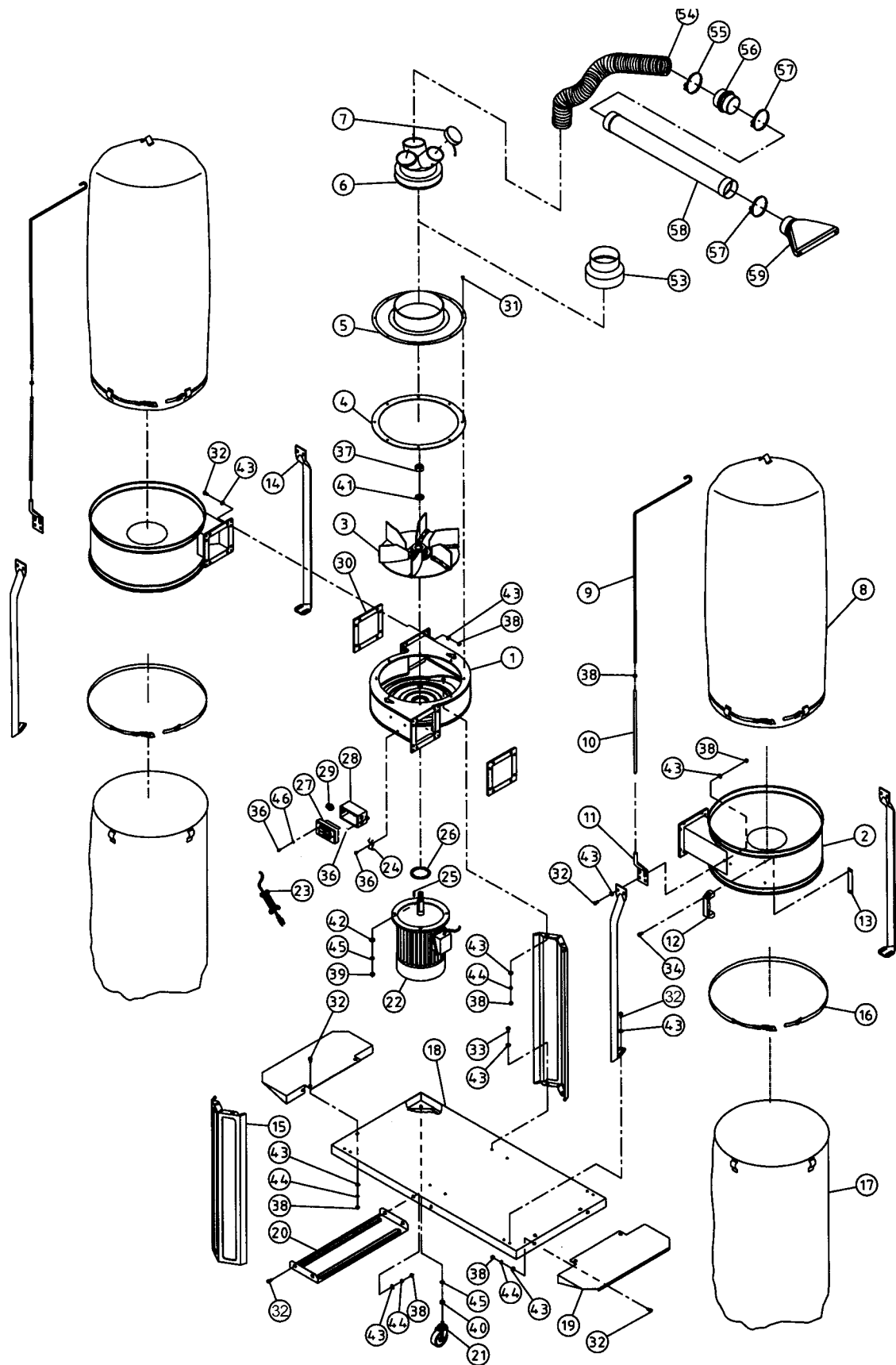
Parts List: Model 75 Dust Collector

No.	Part No.	Description	Quantity
1	6286605	Impeller Housing	1
2	6286606	Housing	2
3	6286607	Impeller	1
4	6286608	Gasket	1
5	6286609	Inlet Cover	1
6	6286610	Adapter, 8" - (3)4"	1
7	6286611	Adapter Cap	2
8	6286600	Upper Bag	2
9	6286619	Upper Hanger	2
10	6286620	Lower Hanger	2
11	6286621	Hanger Bracket	2
12	6286622	Handle	4
13	6286623	Support Block	4
14	6286624	Support Leg	4
15	6286625	Support Bracket	2
16	6286626	Retainer Strap	4
17	6286601	Lower Bag	2
18	6286627	Base	1
19	6286628	Extension Plate	2
20	6286629	Support Plate	1
21	6286656	Pivoting Caster	4
22	6286603	Motor, 3 HP, 1 Ph, 230V	1
	6286604	Motor, 3 HP, 3 Ph, 230/460V	1
23	6286631	Power Cord	1
24	6286632	Power Cord Holder	1
25	6286633	Motor Shaft Key	1
26	6286634	Motor Gasket	1
27	6286635	Control	1
28	6286636	Control Box	1
29	6286637	Strain Relief	2
30	6286638	Rubber Gasket	2
31	6286639	Round Head Screw, M6 x 1 x 12	8
32	6286660	Hex Head Screw, M8 x 1.25 x 20	48
34	6286642	Socket Head Screw, M8 x 1.25 x 12	8
35	6286667	Self Tapping Screw, M3.5 x 16	2
36	6286644	Round Head Screw, M5 x 0.8 x 12	3
37	6286645	Nut, 5/8 x 18 UNF	1
38	6286445	Nut, M8 x 1.25	42
39	6286647	Nut, M10 x 1.5	4
40	6293809	Nut, 3/8-16 UNC	4
41	6286662	Flat Washer, M16	1
42	6286663	Flat Washer, M10	4
43	6286664	Flat Washer, M8	76
44	6286665	Lock Washer, M8	16
45	6286666	Lock Washer, M10	4
46	TS-1550021	Flat Washer, M4	2
47	6286654	Plate "Better by Design"	1
48	6286655	Motor Plate	1
49	3330283	Safety Rules Decal	1
50	6286657	Caution Decal	1
51	6286658	Warning Label	1
52	3312334	Serial Plate	1
53	6286618	Adapter Attachment Kit, 8" - 6" (Items 54 thru 59)	1

Parts List: **Model 75 Dust Collector**

No.	Part No.	Description	Quantity
54	6286612	Hose, 20' x 4"	1
55	6286615	Clamp, 4"	1
56	6286614	Adapter, 4" - 4"	1
57	6286613	Stainless Clamp, 4"	2
58	6286616	Plastic Tube, 3'L x 4"	1
59	6286617	Vacuum Head	1
60	6286630	Hardware	1
61	M-0460200	Manual	1

Model 75 Dust Collector



Optional Accessories

6050011	Collector (lower) bags, clear plastic (50 each)
6286600	Filter (upper) bag, cloth (1 each)
6286601	Collector (lower) bag, clear plastic (1 each)
6286602	Vacuum attachment (20' hose with 12" vacuum head)
6286618	Adaptor for 8" to 6"
6292835	Collector (lower) bag, cloth (1 each)

To order parts or reach our service department, please call our toll-free number between 8:00 a.m. and 4:30 p.m. (CST), Monday through Friday. Having the Model Number and Serial Number of your machine available when you call will allow us to serve you quickly and accurately. Locating the stock number of the part(s) required from your parts manual will also expedite your order.

Phone No.: (800) 248-0144

Fax No. (800) 274-6840

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